

AOC3 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	SSAO;AOC3;Membrane primary amine oxidase;Copper amine oxidase;VAP-1;Semicarbazide-sensitive amine oxidase;Vascular adhesion protein 1;HPAO
Protein Construction:	Arg28-Asn763
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q16853
Molecular Weight:	120 KDa (reducing condition)
AA Sequence:	Arg28-Asn763

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris-HCl, 500 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Membrane primary amine oxidase(AOC3), also known as vascular adhesion protein (VAP-1) and HPAO, this protein is a member of the semicarbazide-sensitive amine oxidase (SSAO) family. VAP-1 is a type 1 membrane-bound glycoprotein that has a distal adhesion domain and an enzymatically active amine oxidase site outside of the membrane, VAP-1 has adhesive properties, functional monoamine oxidase activity, and possibly plays a role

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in glucose handling, leukocyte trafficking, and migration during inflammation. This rise in metabolic products contributes to generating advanced glycation end-products and oxidative stress along with the monoamine detoxification in the organism. It is highly expressed on the endothelium of the lung and trachea, and absent from leukocytes and epithelial cells. Membrane-bound VAP-1 releases an active, soluble form of the protein, which may be conducive to increased inflammation and the progression of many vascular disorders. In particular, elevation of VAP-1 activity and the increased enzymatic-mediated deamination is proposed to play a role in renal and vascular disease, oxidative stress, acute and chronic hyperglycemia, and diabetes complications.

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